

About this resource:

EPA is providing this resource solely for informational purposes. The agency can not attest to the accuracy, effectiveness, legality or usefulness of the information provided, nor does the inclusion or reference of such language constitute an endorsement by EPA.

Document Name:

IDOT Dan Ryan constructon noise spec

Organization/Agency Responsible:

Illinois Department of Transportation

Contact:

Walt Zyznieuski
Illinois Dept. of Transportation
Walter.Zyznieuski@illinois.gov
217-785-4181

Description: Dan Ryan Expressway

Dan Ryan Expressway is a four year road reconstruction project south of Chicago. The project addresses reduction of carbon monoxide (CO), hydrocarbons (HC), nitrogen oxides (NO_x), and particulate matter (PM) through idle-reduction practices, EPA verified emission control devices, ultra-low sulfur diesel fuel, dust control measures, air quality monitoring, and 24-hour response to concerns.

Construction Noise Mitigation

Description. This work shall consist of implementing construction noise restrictions as outlined in the Contract Construction Noise Mitigation plan. Work on the Contract shall be in accordance with the Construction Noise Mitigation plan submitted by the Contractor, applicable sections of Article 107.35 of the Standard Specifications, and modifications as contained herein for construction noise.

The Contractor shall provide advance notification, and secure approval from the Engineer prior to the use of heavy construction equipment outside normal construction work hours ("normal construction work hours" as specified in Article 107.35 of the Standard Specifications). Inspection and maintenance of all vehicle exhaust systems shall be conducted on a monthly basis, (or as determined by the Engineer), for all such vehicles and other equipment assigned to or utilized on the Contract site. Inspections shall be conducted by personnel having a working knowledge of exhaust systems so that proper recommendations regarding the adequacy of the mufflers can be established.

Construction Equipment

Pavement breakers create high concentrations of low frequency sound energy, and noise attenuation can be achieved through the introduction of high-mass material between the noise source and the receiver. The attachment of shrouds (sound curtains) to the steel frame around the breaker shall be installed, as equipment allows. The operation of pavement breakers shall be prohibited outside of normal work hours, as specified herein, unless otherwise approved by the Engineer.

Special care shall be taken with respect to the set up and operation of concrete batch and concrete crushing plants to minimize the potential noise impacts to the adjacent community. The Department will work with the Contractor and City of Chicago authorities, including local aldermen in selecting construction concrete batch and/or crushing locations, whether within or outside the ROW, to avoid locations near sensitive areas or populations to the greatest extent possible. All local, City, Village, Town and/or Township rules, regulations, and/or requirements regarding batch and crushing plants shall be followed, as instructed by the Engineer.

Compressors or generators shall be located as far away as possible from sensitive receptors. Compressors and generators shall be positioned such that the cooling fan intake does not point towards the community. The Contractor shall review stationary equipment placement with the Engineer prior to commencement of work.

Method of Measurement and Basis of Payment:

The CONSTRUCTION NOISE MITIGATION will not be measured for payment and the cost of this work shall be included in the unit prices bid and no additional compensation will be allowed.